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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/905,095	07/13/2001	Thomas R. Corrigan	56226US.002 3540		
32692 7	590 06/04/2003				
3M INNOVA PO BOX 3342	TIVE PROPERTIES CO	EXAMINER			
ST. PAUL, M	-	VALENZA, JOSEPH E			
			ART UNIT	PAPER NUMBER	
			3651		
			DATE MAILED: 06/04/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	4		Applica	ation No.	Applicant(s)	$\overline{}$
•		Andin a O	09/905	,095	CORRIGAN, THOM	AS R
	Offic	Action Summary	Examir	er	Art Unit	1
				Valenza	3651	\mathcal{Y}
Period fo	The MAII or Reply	LING DATE of this communi	cation appears on t	the cover sheet w	ith the correspondence addr	ess
I ME - Exte after - If the - If NO - Failu - Any	MAILING L nsions of time r SIX (6) MONTI period for repl period for repl re to reply withi eply received b	O STATUTORY PERIOD FO DATE OF THIS COMMUNIC may be available under the provisions of HS from the mailing date of this commu- y specified above is less than thirty (30) by is specified above, the maximum stat in the set or extended period for reply we by the Office later than three months aft adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no unication.) days, a reply within the so divide a poly within the solution.	event, however, may a statutory minimum of thir will expire SIX (6) MAN	reply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this comi	<i>U</i> munication.
1) 🖂	Respons	ive to communication(s) file	ed on 22 May 2003	•		
2a)⊠						
3)□			(b) This action			
	closed in on of Clai	accordance with the practic	tor allowance exce ce under <i>Ex parte</i>	ept for formal ma Q <i>uayle</i> , 1935 C.I	tters, prosecution as to the i D. 11, 453 O.G. 213.	merits is
4) 🖾	Claim(s)	<u>1-50</u> is/are pending in the a	pplication.			
	4a) Of the	above claim(s) <u>4-7,10-17,2</u>	<u>3-26, 29-33, 35-39, </u>	41,46 and 50 is/a	re withdrawn from consider	ation.
		is/are allowed.				
6)⊠	Claim(s) <u>1</u>	-3,8,9,18-22,27,28,34,40,4	2-45 and 47-49 is/a	are rejected.		
		is/are objected to.		•		
8)	Claim(s) _	are subject to restricti	on and/or election	requirement.		
Application	on Papers			•		
9)[] 1	he specific	cation is objected to by the	Examiner.			
10)∐ T	he drawing	g(s) filed on is/are: a	ı)∐ accepted or b)[objected to by th	ne Examiner.	
		may not request that any objec				
11)∐ T	he propose	ed drawing correction filed (on is: a)	approved b)∐ di	sapproved by the Examiner.	
		d, corrected drawings are requ		Office action.		
		declaration is objected to b	y the Examiner.			
Priority u	nder 35 U.	S.C. §§ 119 and 120				
13) 🗌 📝	Acknowled	gment is made of a claim fo	or foreign priority u	nder 35 U.S.C. §	119(a)-(d) or (f).	
a)[]All b)□	Some * c) ☐ None of:				
•	I.□ Certi	fied copies of the priority do	ocuments have bee	en received.		
2	2.☐ Certi	fied copies of the priority do	ocuments have bee	en received in Ap	plication No	
	3.□ Copid a		the priority docum	ents have been r	eceived in this National Sta	ge
					- 119(e) (to a provisional ap _l	- 1: 1: - · · · ·
a)	The tra	nslation of the foreign langument is made of a claim for	age provisional a	oplication has be	en received.	plication).
Attachment(:			Tomosto priority t	inder 33 U.S.C. §	13 12V aliu/0F 121.	
Notice Notice	of References of Draftsperso tion Disclosu	s Cited (PTO-892) on's Patent Drawing Review (PTO re Statement(s) (PTO-1449) Pape	9-948) er No(s)	4) Interview Si 5) Notice of Int 6) Other:	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-15)	2)
Patent and Trad O-326 (Rev.	emark Office 04-01)		Office Action Summa	rv	Part of Paper No. 14	

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DETAILED ACTION

1. Claims 4-7, 10-17, 23-26, 29-33, 35-39, 41, 46 and 50 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 5.

These claims were not considered by applicant as being readable on the elected specie.

2. Claims 1-3, 8, 9, 18-22, 27, 28, 34, 40, 42-45 and 47-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stephens in view of Lemelson or Maekawa and Ostwald.

It would have been obvious that the robots 2, 3 (or robotic arms if preferred) of Stephens could have two additional links with an end effector on the last link as taught by links 11, 15 of Lemelson or links (unnumbered vertical column on base 9 and horizontal link 5) of Maekawa. While two robots are discussed in Stephens and applicant has specified three, the number of robots has not been proven to be critical to the operation of the system and is really dependent on the number that the central controller can handle. While the shape of the path has been claimed as circular, the shape of the path has not been proven to be critical to the operation of the system and could in fact be any shape as is possible with Stephens. However, Ostwald teaches that plural robots 12 can independently travel along circular tracks 22. It would have been obvious to add this teaching to the above structure. With regard to claim 18, since the robots are independently controlled, the radially adjustable third links of Lemelson or

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Maekawa could naturally position the end effectors at different radial distances. With regard to claims 27 and 28, the designs of the track and the drive for the first link have not been shown to be critical to the operation of the system and are considered to be functionally equivalent to the designs in the prior art.

- 3. With regard to the remarks presented on pages 14 and 15 of paper #12, the following should be noted. In line 18 of page 14 of the amendment, applicant argues "a continuous motion robotic device" when the earlier amendment paper # 8 removed the "continuous" motion limitation from the body of claims 1 and 40. Concerning the "robotic arms" verses "robots" issue, if applicant can call an arm unit mounted on a self-propelled body that runs in a closed path a "robotic arm", the armed robots of the prior art can likewise be called "robotic arms".
- 4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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5. Any inquiry concerning this communication should be directed to Joseph E. Valenza at telephone number (703) 308-2577. Amendments may be faxed to 703-305-7687. My normal workweek is Monday through Thursday.

JOSEPH E. VALENZA PRIMARY EXAMINER Page 4